



N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of:)
Mitsuo YASUSHI et al.)
Application No.: 10/647,589)
Filed: 08/26/03)

Title: APPARATUS AND METHOD FOR ANALYZING HEART-RATE VARIABILITY BASED ON ELECTROCARDIOGRAM INFORMATION

Commissioner for Patents U.S. Patent and Trademark Office Alexandria, VA 22314

Sir:

CHANGE OF CORRESPONDENCE ADDRESS

Please enter the correspondence address of this application as:

Customer Number 55694

A new power of attorney appointing the undersigned is being filed concurrently herewith. If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: January 18, 2006

By:

Registration No. 48,183

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INFORMATION

Commissioner for Patents U. S. Patent and Trademark Office Alexandria, VA 22314

Sir:

SUBMISSION OF REVOCATION OF ORIGINAL POWER OF ATTORNEY AND GRANT OF NEW POWER OF ATTORNEY

Enclosed is a copy of the Revocation of Original Power of Attorney and Grant of New Power of Attorney by the Assignee.

By:

If there is any fee due in connection with the filing of this paper, please charge the fee to our Deposit Account No. 50-0573.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: January 18, 2006

Peter J. Sistare

Registration No. 48,183

CUSTOMER NO. 55694 DRINKER, BIDDLE & REATH LLP

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BAssignee: PIONEER CORPORATION

Commissioner for Patents Washington, D.C. 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), PIONEER CORPORATION, a Japanese corporation, certifies that it is an assignce of the patent applications and issued patents identified in the following chart by virtue of respective Assignment documents for each listed application and patent from the inventor(s) to PIONEER CORPORATION submitted to the U.S. Patent and Trademark Office. The dates on which the assignments were submitted and the reel/frame numbers at which the assignments were recorded are indicated in the chart below when known.

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
05/23/95	041465-0002	08/450,952	5,697,080	12/09/97	07/06/95; 7545/0112
11/02/94	041465-5003	08/333,326	5,600,615	02/04/97	11/02/94; 7191/0280
10/13/95	041465-5004	08/543,083	5,734,631	03/31/98	10/13/95: 7837/0471
02/01/96	041465-5007	08/595,196	5,757,742	05/26/98	02/01/96; 7861/0266
03/26/98	041465-5007-01	09/048,217	5,910,937	06/08/99	02/01/96; 7861/0266
03/06/96	041465-5008-01	08/611,753	5,892,748	04/06/99	03/06/96;7913/0363
03/29/96	041465-5009	08/623,821	5,703,864	12/30/97	03/29/96; 7939/0077
06/27/96	041465-5012	08/670,533	5,886,965	03/23/99	06/27/96; 8071/0759
06/28/96	041465-5013	08/671,652	5,758,008	05/26/98	06/28/96; 8068/0555
07/02/96	041465-5014	08/677,452	5,636,186	06/03/97	07/02/96; 8082/0131
07/03/96	041465-5015	08/675,016	5,892,983	04/06/99	07/03/96; 8087/0944
07/09/96	041465-5016	08/677,196	5,787,222	07/28/98	07/09/96; 8107/0515
06/02/98	041465-5016-01	09/088,379	6,160,951	12/12/00	07/09/96; 8107/0515
01/12/99	041465-5017-01	08/747,666	5,978,347	11/02/99	11/12/96; 8314/0092
08/18/99	041465-5017-02	09/376,295	6,175,545	01/16/01	11/12/96; 8314/0092
11/13/96	041465-5018	08/748,029	5,729,522	03/17/98	11/12/96; 8315/0887
01/30/97	041465-5019	08/791,316	5,886,970	03/23/99	10/10/97; 8743/0042
04/26/00	041465-5020-01	08/806,458	6,236,804	05/22/01	09/30/97; 8757/0863
04/02/01	041465-5020-02	09/822,259	6,741,797	05/25/04	09/30/97; 8757/0863

Filing	Attorney Docket	Application	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Framc
Date	No.	110.	(ii applicable)	(ii applicable)	Date, Recorraine
03/27/02	041465-5020-03	10/106,355			09/30/97; 8757/0863
02/26/97	041465-5021	08/806,459	6,006,004	12/21/99	09/30/97; 8757/0818
09/24/99	041465-5021-01	09/404.765	6,253,018	06/26/01	09/30/97; 8757/0818
02/12/01	041465-5021-02	09/780,384	6,396,997	05/28/02	09/30/97; 8757/0818
03/20/02	041465-5021-03	10/101,333			09/30/97; 8757/0818
03/14/97	041465-5022	08/816,941	6,085,021	07/04/00	03/14/97; 8590/0393
03/06/97	041465-5023	08/812,882	6,108.486	08/22/00	07/17/97; 8618/0444
03/11/97	041465-5024	08/815,184	5,960,152	09/28/99	08/25/97; 8675/0804
3/13/97	041465-5025	08/816,686	6,148,138	11/14/00	03/13/97; 8440/0330
03/11/97	041465-5026	08/815,162	5,729,516	03/17/98	03/11/97; 8440/0113
09/29/98	041465-5027-01	08/815,956	6,031,962	02/29/00	03/13/97; 8457/0610
03/13/97	041465-5028	08/816,889	5,933,569	08/03/99	08/27/03; 14441/0983
03/17/97	041465-5029	08/819,861	5,805,537	09/08/98	09/05/97; 8696/0064
04/13/99	041465-5030-02	08/820,257	6,104,684	08/15/00	03/18/97; 8462/0522
04/28/00	041465-5030-03	09/559,971	6,757,483	06/29/04	03/18/97; 8462/0522
06/02/04	041465-5030-04	10/858,268			03/18/97; 8462/0522
03/17/97	041465-5031	08/822,157	6,091,674	07/18/00	09/30/97; 8757/0845
03/17/97	041465-5032	08/819,012	6,157,769	12/05/00	03/17/97; 8453/0647
08/17/00	041465-5032-01	09/639,887	6,501,903	12/31/02	12/09/03; 14178/0529
05/29/02	041465-5032-02	10/156,393			12/09/03; 14178/0529
03/17/97	041465-5033	08/819,011	6,014,495	01/11/00	03/17/97; 8453/0640
12/02/99	041465-5033-01	09/452,889	6,778,761	08/17/04	03/17/97; 8453/0640
06/27/03	041465-5034-03	10/606,831			03/28/02; 12713/0974
03/18/97	041465-5035	08/820,256	5,966,352	10/12/99	03/18/97; 8462/0495
03/20/97	041465-5036	08/825,560	5,889,746	03/30/99	03/20/97; 9333/0261
03/21/97	041465-5037	08/821,424	6,137,954	10/24/00	03/21/97; 8476/0385
08/30/00	041465-5038-01	08/822,457	6,212,330	04/03/01	03/21/97; 8465/0613
03/21/97	041465-5039	08/821,920	5,742,569	04/21/98	03/21/97; 8536/0356
04/01/97	041465-5040	08/831,716	6,088,506	07/11/00	09/05/97; 8696/0061
11/15/99	041465-5040-01	09/440,290	6,266,478	07/24/01	09/05/97; 8696/0061
05/23/01	041465-5040-02	09/862,457	6,567,612	05/20/03	09/05/97; 8696/0061
05/02/03	041465-5040-03	10/427,970		-	09/05/97; 8696/0061
10/12/99	041465-5041-01	08/834,806	6,215,952	04/10/01	09/12/97; 8696/0128
05/23/01	041465-5041-02	09/731,653	•		09/12/97; 8696/0128

Filing	Attorney Docket	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
Date	No.				
04/07/97	041465-5042	08/833,476	5,936,925	08/10/99	01/26/98; 9093/0410
06/20/97	041465-5043	08/879,969	6,058,087	05/02/00	06/20/97; 8661/0104
11/09/00	041465-5044-01	08/897,033	6,272,332	08/07/01	07/18/97; 8696/0425
11/09/00	041465-5044-02	09/708,503	6,526,285	02/25/03	07/18/87; 8689/0425
08/01/97	041465-5045	08/905,044	5,896,353	04/20/99	08/01/97; 8737/0950
08/20/97	041465-5046	08/915,649	5,815,472	09/29/98	08/20/97; 8771/0962
08/22/97	041465-5047	08/916,326	5,917,793	06/29/99	08/22/97; 8774/0518
09/02/97	041465-5048	08/921,460	5,985,792	11/16/99	09/02/97; 8785/0322
04/16/98	041465-5049	09/060,961	6,104,019	08/15/00	04/16/98; 9106/0391
06/19/98	041465-5050	09/100,098	5,991,244	11/23/99	06/19/98; 9263/0379
08/05/98	041465-5051	09/129,420	6,094,638	07/25/00	08/05/98; 9369/0435
11/27/98	041465-5052	09/200,428	6,272,082	08/07/01	11/25/98; 9617/0643
07/25/01	041465-5052-01	09/911,788	6,396,781	05/28/02	11/25/98; 9617/0643
04/09/02	041465-5052-02	10/118,234	6,574,187	06/03/03	11/25/98; 9617/0643
08/20/02	041465-5053-01	09/200,430			11/25/98; 9617/0619
12/23/98	041465-5054	09/219,778	6,198,085	03/06/01	12/23/98; 9679/0182
01/20/99	041465-5056	09/233,423	6,507,541	01/14/03	01/20/99; 9713/0689
07/22/02	041465-5056-01	10/199,019	6,680,890	01/20/04	01/20/99; 9713/0689
02/18/99	041465-5058	09/251,740	6,212,141	04/03/01	02/18/99; 9784/0616
03/08/99	041465-5059	09/263,851	6,219,309	04/17/01	03/08/99; 9820/0553
04/11/01	041465-5059-01	09/829,904	6,549,496	04/15/03	03/08/99; 9820/0553
02/28/03	041465-5059-02	10/375,009			03/08/99; 9820/0553
03/16/99	041465-5060	09/270,658	6,308,006	10/23/01	03/16/99; 9828/0089
08/31/01	041465-5060-01	09/942,584	6,760,540	07/06/04	03/16/99; 9828/0089
05/24/04	041465-5060-02	10/851,327			03/16/99; 9828/0089
03/12/99	041465-5061	09/266,780	6,850,690	02/01/05	03/12/99; 9818/0136
03/18/99	041465-5062	09/270,828	6,449,015	09/10/02	03/18/99; 9837/0870
03/19/99	041465-5063	09/271,990	6,343,055	01/29/02	07/16/99; 10234/0058
01/29/02	041465-5064-01	10/058,098	6,859,421	02/22/05	04/09/99; 9894/0803
07/24/02	041465-5064-02	09/288,641	6,687,211	02/03/04	04/09/99; 9894/0803
01/05/05	041465-5064-03	11/028,863			04/09/99; 9894/0803
04/09/99	041465-5065	09/288,643			04/09/99; 9894/0747
06/07/05	041465-5065-01	11/146,161			04/09/99; 9894/0747
10/05/99	041465-5067	09/412,309			10/05/99; 10302/0737

Assignee : PIONEER CORPORATION

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Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
10/28/99	041465-5068	09/428,943	6,442,111	08/27/02	10/28/99; 10353/0608
10/28/99	041465-5069	09/429,559	6,411,576	06/25/02	10/28/99; 10353/0406
10/29/99	041465-5070	09/429,615	6,381,206	04/30/02	10/29/99; 10459/0429
11/24/99	041465-5071	09/444,719	6,571,055	05/27/03	11/24/99; 10431/0851
11/23/99	041465-5072	09/447,416	6,577,589	06/10/03	11/23/99; 10432/0520
11/05/02	041465-5073-01	09/482,918	6,545,965	04/08/03	01/14/00; 10524/0952
01/24/00	041465-5075	09/490,870	6,272,105	08/07/01	01/24/00; 10585/0960
03/17/00	041465-5076	09/527,457	6,487,160	11/26/02	03/17/00; 10698/0247
04/14/00	041465-5077	09/550,078			
06/06/00	041465-5078	09/588,660	6,370,097	04/09/02	06/06/00; 10877/0939
12/27/99	041465-5079	09/472,504	6,879,771	04/12/05	12/27/99; 10502/0467
06/27/00	041465-5081	09/604,398			06/27/00; 10934/0044
06/30/00	041465-5082	09/608,962	6,674,706	01/06/04	06/30/00; 10975/0295
07/27/00	041465-5083	09/627,304			07/27/00; 11054/0149
08/17/00	041465-5084	09/639,888	6,546,258	04/08/03	08/17/00; 11054/0596
08/18/00	041465-5085	09/640,779	6,552,983	04/22/03	08/18/00; 11054/0811
09/08/00	041465-5086	09/658,877			09/18/00; 11328/0811
09/08/00	041465-5087	09/657,805	6,701,468	03/02/04	09/08/00; 11146/0366
09/28/00	041465-5088	09/617,112	6,345,033	02/05/02	09/28/00; 11209/0620
10/04/00	041465-5089	09/679,049			10/04/00; 11210/0377
10/13/00	041465-5090	09/689,825	6,434,091	08/13/02	10/13/00; 11282/0737
07/17/02	041465-5090-01	10/196.250	6,587,428	07/01/03	10/13/00; 11282/0737
10/27/00	041465-5091	09/697,738	6,560,174	05/06/03	10/27/00; 11266/0377
12/07/00	041465-5092	09/730,797	6,556,920	04/29/03	12/07/00; 11359/0649
12/13/00	041465-5093	09/734,678	6,876,922	04/05/05	12/13/00; 11362/0007
12/14/00	041465-5094	09/735,514	6,738,710	05/18/04	12/14/00; 11382/0687
12/22/00	041465-5095	09/742,328	6,516,269	02/04/03	12/22/00; 11406/0723
12/28/00	041465-5096	09/749,177	6,728,181	04/27/04	12/28/00; 11413/0666
02/28/01	041465-5097	09/794,115	6,556,302	04-29-03	02/28/01; 11578/0103
02/27/01	041465-5098	09/793,583	6,449,222	09/10/02	02/27/01; 11576/0534
03/01/01	041465-5099	09/795,346			03/01/01; 11584/0128
03/20/01	041465-5100	09/811,624	6,545,956	04/08/03	03/20/01; 11632/0090
03/14/01	041465-5101	09/805,361	6,781,637	08/24/04	03/14/01; 11631/0756
03/28/01	041465-5102	09/818,632			03/28/01; 11646/0731

Please correct the Serial Number to read "09/671, 112."

Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Recl/Frame
03/27/01	041465-5103	09/817,246			03/27/01; 11662/0358
03/27/01	041465-5104	09/817,245			03/27/01; 11662/0366
03/29/01	041465-5105	09/819,978	6,757,229	06/29/04	07/05/01; 11948/0188
04/03/01	041465-5106	09/823,980	6,724,703	04/20/04	04/03/01; 11678/0508
01/23/04	041465-5106-01	10/762,313			04/03/01; 11678/0508
04/04/01	041465-5107	09/824,717	6,885,773	04/26/05	04/04/01; 11677/0573
04/05/01	041465-5108	09/826,009	 		04/05/01; 11691/0098
04/20/01	041465-5109	09/838,259			04/20/01; 11734/0748
04/27/01	041465-5110	09/846,557	RE38602	09/28/04	06/24/96: 8079/0950
05/09/01	041465-5111	09/851,391			05/09/01; 11792/0359
06/27/01	041465-5112	09/891,470			06/27/01; 11941/0266
07/09/01	041465-5113	09/900,152	6,898,160	05/24/05	07/09/01; 11973/0809
07/25/01	041465-5114	09/911,424	6,813,237	11/02/04	07/25/01; 12019/0788
12/10/03	041465-5114-01	10/730,981			07/25/01; 12019/0788
08/08/01	041465-5115	09/924,055			
08/15/01	041465-5116	09/929,108			08/15/01; 12084/0016
08/15/01	041465-5117	09/929,109			08/15/01; 12084/0013
08/15/01	041465-5118	09/929,110			08/15/01; 12082/0907
09/14/01	041465-5119	09/951,437			09/14/01; 12173/0927
09/19/01	041465-5120	09/955,117	6,657,939	12/02/03	09/19/01; 12182/0825
09/19/01	041465-5121	09/955,239	6,804,187	10/12/04	09/19/01; 12181/0564
10/01/01	041465-5122	09/966,066			10/01/01; 12221/0632
10/02/01	041465-5123	09/968,502			10/02/01; 12226/0483
10/12/01	041465-5124	09/974,825	6,735,153	05/11/04	10/12/01; 12254/0764
02/17/04	041465-5124-01	10/778,213			10/12/01; 12254/0764
11/06/01	041465-5126	09/985,836			11/06/01; 12299/0153
11/23/01	041465-5128	09/990,372			11/23/01; 12321/0008
11/23/01	041465-5129	09/990,343			11/23/01; 12320/0875
08/10/04	041465-5129-01	10/914,267			11/23/01; 12320/0875
08/10/04	041465-5129-02	10/914,266			11/23/01; 12320/0875
08/10/04	041465-5129-03	10/914,186			11/23/01; 12320/0875
12/17/01	041465-5130	10/015,895			12/17/01; 12389/0133
12/26/01	041465-5131	10/025,809			12/26/01; 12397/0745
12/26/01	041465-5132	10/025,810	6,738,212	05/18/04	12/26/01; 12397/0885

Filing	Attorney Docket	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
Date	No.	110.	(ii applicable)	(ii applicable)	Date, Recurrance
01/10/02	041465-5133	10/041,473			01/10/02; 12460/0908
01/30/02	041465-5134	10/058,857	6,880,164	04/12/05	01/30/02; 12543/0972
10/29/04	041465-5134-01	10/975,549			01/30/02; 12543/0972
10/29/04	041465-5134-02	10/975,421			01/30/02; 12543/0972
02/08/02	041465-5135	10/068,024			02/08/02; 12671/0504
02/08/02	041465-5136	10/067,770	6,839,313	01/04/05	02/08/02; 12578/0435
02/14/02	041465-5139	10/073,867			02/14/02; 12599/0077
02/19/02	041465-5140	10/076,602			02/19/02; 12620/0576
02/27/02	041465-5141	10/083,648	6,678,165	01/13/04	02/27/02; 12643/0297
10/20/03	041465-5141-01	10/687,704			02/27/02; 12643/0297
03/06/02	041465-5142	10/091,332			03/06/02; 12672/0990
03/12/02	041465-5143	10/094,621			03/12/02; 12694/0425
03/26/02	041465-5145	10/105,946			03/26/02; 12739/0388
04/10/02	041465-5146	10/119,117			04/10/02; 12791/0619
06/09/04	041465-5146-01	10/863,236			04/10/02; 12791/0619
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Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
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10/07/03	041465-5203	10/679,361	6,845,078	01/18/05	10/07/03; 14593/0813

Date No. 10/15/03 041465-5204 10/686,283 10/15/03; 14618/0175 10/27/03 041465-5205 10/475,916 10/27/03; 15154/0844 10/15/03 041465-5206 10/684,500 10/15/03; 14618/0685 10/23/03 041465-5207 10/690,506 10/23/03; 14632/0385 10/24/03 041465-5208 10/691,709 10/24/03; 14633/0785 10/29/03 041465-5209 10/694,946 10/29/03; 14660/0605 05/21/99 041465-5210 09/315,980 6,889,002 05/03/05 08/13/99; 10165/0115 10/30/03 041465-5211 10/695,955 10/30/03 14660/0475 11/17/03 041465-5212 10/713,038 11/17/03; 14712/0648 11/18/03 041465-5212 10/713,038 11/17/03; 14712/0648 12/02/03 041465-5212 10/714,625 11/18/03 041465-5214 10/724,626 12/02/03; 14767/0800 01/09/04 041465-5215 10/753,533 01/09/04; 14888/0185 03/05/04 041465-5216 10/753,450 01/09/04; 14888/0185 03/05/04 041465-5218 10/782,868 02/23/04; 15004/0475 03/12/04 041465-5218 10/782,868 02/23/04; 15005/0035 04/15/04 041465-5221 10/824,595 04/15/04 041465-5222 10/819,106 04/07/04; 15189/0136 04/07/04 041465-5222 10/819,106 04/07/04; 15189/0136 04/08/04 041465-5222 10/819,106 04/07/04; 15189/0136 05/07/04 041465-5225 10/830,221 04/23/04; 15307/0136 05/07/04 041465-5225 10/830,221 04/23/04; 15307/0136 05/07/04 041465-5225 10/840,573 05/07/04 041465-5226 10/840,573 05/07/04 041465-5228 10/840,573 05/07/04 041465-5228 10/840,573 05/07/04 041465-5228 10/840,573 05/07/04 041465-5229 10/858,383 06/02/04; 15447/0777 07/23/04 041465-5231 10/896,883 07/23/04; 15616/0665 07/28/04 041465-5233 10/896,883 07/23/04; 15616/0665 07/28/04 041465-5233 10/896,883 07/23/04; 15616/0665 07/28/04 041465-5233 10/896,883 07/23/04 07/23/04 041465-5234 10/896,883 07/23/04 07/23/04 041465-5234 10/896,883 07/23/04; 15630/0331 07/28/04 041465-5234 10/900,328 07/28/04; 15630/0331 07/28/04 041465-5234 10/900,328 07/28/04; 15630/033	Filing	Attorney	Application	Patent No.	Issue Date	Recordation Info.
10/15/03 041465-5204 10/686,283 10/15/03; 14618/017;	Date	Docket No.	No.	(if applicable)	(if applicable)	Date; Reel/Frame
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05/12/04 041465-5228 10/495,216 05/12/04; 16128/0470 06/02/04 041465-5229 10/858,383 06/02/04; 15447/0777 07/23/04 041465-5230 10/896,883 07/23/04; 15616/0654 07/22/04 041465-5231 10/895,944 07/22/04; 15615/0967 07/23/04 041465-5232 10/896,878 07/23/04; 15616/0663 07/28/04 041465-5233 10/900,327 07/28/04; 15630/0331 07/28/04 041465-5234 10/900,328 07/28/04; 15631/0327	05/07/04	041465-5226	10/840,479			05/07/04; 15316/0959
06/02/04 041465-5229 10/858,383 06/02/04; 15447/0777 07/23/04 041465-5230 10/896,883 07/23/04; 15616/0654 07/22/04 041465-5231 10/895,944 07/22/04; 15615/0967 07/23/04 041465-5232 10/896,878 07/23/04; 15616/0663 07/28/04 041465-5233 10/900,327 07/28/04; 15630/0331 07/28/04 041465-5234 10/900,328 07/28/04; 15631/0327	05/07/04	041465-5227	10/840,513			07/11/02; 13105/0660
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07/28/04 041465-5233 10/900,327 07/28/04; 15630/033 07/28/04 041465-5234 10/900,328 07/28/04; 15631/0327	07/22/04	041465-5231	10/895,944			07/22/04; 15615/0967
07/28/04 041465-5234 10/900,328 07/28/04; 15631/0327	07/23/04	041465-5232	10/896,878			07/23/04; 15616/0663
	07/28/04	041465-5233	10/900,327			07/28/04; 15630/0331
08/09/04 041465-5235 10/913,504 11/15/04; 15992/0207	07/28/04	041465-5234	10/900,328			07/28/04; 15631/0327
	08/09/04	041465-5235	10/913,504			11/15/04; 15992/0207
08/09/04 041465-5236 10/913,492 11/15/02; 15992/0214	08/09/04	041465-5236	10/913,492			11/15/02; 15992/0214
08/23/04 041465-5237 10/922,827 08/23/04; 15719/0013	08/23/04	041465-5237	10/922,827			08/23/04; 15719/0015

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Filing Date	Attorney Docket No.	Application No.	Patent No. (if applicable)	Issue Date (if applicable)	Recordation Info. Date; Reel/Frame
09/17/04	041465-5238	10/942,847			09/07/04; 15805/0136
08/27/04	041465-5239	10/927,527			11/19/04; 16008/0534
09/03/04	041465-5240	10/506,506			09/30/04; 16266/0320
09/03/04	041465-5241	10/506,515			09/03/04; 16294/0223
09/03/04	041465-5242	10/506,503			09/03/04; 16415/0281
09/03/04	041465-5243	10/506,527			09/03/04; 16233/0604
09/20/04	041465-5244	10/944,047			09/20/04; 15812/0565
09/14/04	041465-5245	10/939,435			09/14/04; 15795/0141
09/29/04	041465-5246	10/951,895			09/29/04; 15850/0215
10/12/04	041465-5247	10/961,141			10/12/04; 15885/0664
10/05/04	041465-5248	10/957,979			10/05/04; 15874/0974
10/13/04	041465-5249	10/962,757			12/09/04; 16061/0890
11/02/04	041465-5250	10/978,418			11/02/04; 15949/0427
11/23/04	041465-5251	10/994,653			
11/10/04	041465-5252	10/984,757			
11/23/04	041465-5253	10/995,088			
12/01/04	041465-5254	10/999,962			
02/24/05	041465-5255	10/525,527			
01/10/05	041465-5256	10/520,665			
02/14/05	041465-5257	10/524,414			
02/25/05	041465-5258	10/525,641			
02/18/05	041465-5259	11/060,780			
02/25/05	041465-5260	11/066,003			
03/14/05	041465-5261	11/078,700		-	
03/22/05	041465-5262	11/085,130			, , , , , , , , , , , , , , , , , , ,
03/23/05	041465-5263	11/086,669			
03/29/05	041465-5264	11/091,716			

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignce.

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Acting on behalf of the assignee, the undersigned hereby revokes all powers of attorney previously granted in these applications and patents and appoints:

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with full power of substitution and revocation, to prosecute the applications and to transact all business in the United States Patent and Trademark Office connected with these patent applications and issued patents.

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